SEQUENCE LISTING

<110)>	Impe	rial	Col	lege	Inn	ovat:	ions	Lim	ited					
<120)>	Meth	ods												
<130)>	ICOY	/P28	304P	С										
<140 <140															
<150 <151		PCT/ 2003			25										
<160)>	30													
<170)>	Pate	ntIn	ver	sion	3.1									
<210 <211 <212 <213	L> 2>	1 400 PRT Homo	sap	iens											
<400)>	1													
Met 1	Met	Asp	Leu	Arg 5	Asn	Thr	Pro	Ala	Lys 10	Ser	Leu	Asp	Lys	Phe 15	Ile
Glu	Asp	Tyr	Leu 20	Leu	Pro	Asp	Thr	Cys 25	Phe	Arg	Met	Gln	Ile 30	Asp	His
Ala	Ile	Asp 35	Ile	Ile	Cys	Gly	Phe 40	Leu	Lys	Glu	Arg	Cys 45	Phe	Arg	Gly
Ser	Ser 50	Tyr	Pro	Val	Cys	Val 55	Ser	Lys	Val	Val	Lys 60	Gly	Gly	Ser	Ser
Gly 65	Lys	Gly	Thr	Thr	Leu 70	Arg	Gly	Arg	Ser	Asp 75	Ala	Asp	Leu	Val	Val 80
Phe	Leu	Ser	Pro	Leu 85	Thr	Thr	Phe	Gln	Asp 90	Gln	Leu	Asn	Arg	Arg 95	Gly
Glu	Phe	Ile	Gln 100	Glu	Ile	Arg	Arg	Gln 105	Leu	Glu	Ala	Cys	Gln 110	Arg	Glu
Arg	Ala	Leu 115	Ser	Val	Lys	Phe	Glu 120	Val	Gln	Ala	Pro	Arg 125	Trp	Gly	Asn

Pro Arg Ala Leu Ser Phe Val Leu Ser Ser Leu Gln Leu Gly Glu Gly Val Glu Phe Asp Val Leu Pro Ala Phe Asp Ala Leu Gly Gln Leu Thr Gly Ser Tyr Lys Pro Asn Pro Gln Ile Tyr Val Lys Leu Ile Glu Glu Cys Thr Asp Leu Gln Lys Glu Gly Glu Phe Ser Thr Cys Phe Thr Glu Leu Gln Arg Asp Phe Leu Lys Gln Arg Pro Thr Lys Leu Lys Ser Leu Ile Arg Leu Val Lys His Trp Tyr Gln Asn Cys Lys Lys Leu Gly Lys Leu Pro Pro Gln Tyr Ala Leu Glu Leu Leu Thr Val Tyr Ala Trp Glu Arg Gly Ser Met Lys Thr His Phe Asn Thr Ala Gln Gly Phe Arg Thr Val Leu Glu Leu Val Ile Asn Tyr Gln Gln Leu Cys Ile Tyr Trp Thr Lys Tyr Tyr Asp Phe Lys Asn Pro Ile Ile Glu Lys Tyr Leu Arg Arg Gln Leu Thr Lys Pro Arg Pro Val Ile Leu Asp Pro Ala Asp Pro Thr Gly Asn Leu Gly Gly Gly Asp Pro Lys Gly Trp Arg Gln Leu Ala Gln Glu Ala Glu Ala Trp Leu Asn Tyr Pro Cys Phe Lys Asn Trp Asp Gly Ser Pro Val Ser Ser Trp Ile Leu Leu Ala Glu Ser Asn Ser Thr Asp Asp Glu Thr Asp Asp Pro Arg Thr Tyr Gln Lys Tyr Gly Tyr Ile 355 360 365

Gly Thr His Glu Tyr Pro His Phe Ser His Arg Pro Ser Thr Leu Gln 370 380

Ala Ala Ser Thr Pro Gln Ala Glu Glu Asp Trp Thr Cys Thr Ile Leu 385 390 395 400

<210> 2

<211> 1590

<212> DNA

<213> Homo sapiens

<400> 2

60 gaggeagtte tgttgccact eteteteetg teaatgatgg ateteagaaa taccccagee 120 aaatctctgg acaagttcat tgaagactat ctcttgccag acacgtgttt ccgcatgcaa 180 atcgaccatg ccattgacat catctgtggg ttcctgaagg aaaggtgctt ccgaggtagc 240 tectacectg tgtgtgte caaggtggta aagggtgget ceteaggeaa gggeaceace ctcaqaqqcc qatctqacqc tqacctqqtt qtcttcctca qtcctctcac cacttttcaq 300 360 qatcaqttaa atcgccgggg agagttcatc caggaaatta ggagacagct ggaagcctgt 420 caaagagaga gagcactttc cgtgaagttt gaggtccagg ctccacgctg gggcaacccc 480 cqtqcqctca qcttcqtact qaqttcqctc caqctcgggq aqqqqqtgga qttcqatgtg 540 ctgcctgcct ttgatgccct gggtcagttg actggcagct ataaacctaa cccccaaatc tatgtcaagc tcatcgagga gtgcaccgac ctgcagaaag agggcgagtt ctccacctgc 600 ttcacagaac tacagagaga cttcctgaag cagcgccca ccaagctcaa gagcctcatc 660 cgcctagtca agcactggta ccaaaattgt aagaagaagc ttgggaagct gccacctcag 720 tatgccctqq agctcctgac ggtctatgct tgggagcgag ggagcatgaa aacacatttc 780 aacacagccc aaggatttcg gacggtcttg gaattagtca taaactacca gcaactctgc 840 atctactgga caaagtatta tgactttaaa aaccccatta ttgaaaagta cctgagaagg 900 960 caqctcacga aacccaqqcc tqtqatcctq gacccqqcqq accctacagq aaacttggqt 1020 ggtggagacc caaagggttg gaggcagctg gcacaagagg ctgaggcctg gctgaattac ccatqcttta aqaattqqqa tqqqtcccca qtqaqctcct qqattctqct qqctqaaaqc 1080 aacagtacag acgatgagac cgacgatccc aggacgtatc agaaatatgg ttacattgga 1140 1200 acacatgagt acceteattt eteteataga eccageaege tecaggeage atecaceeea

caggcag	gaag	aggactggac	ctgcaccatc	ctctgaatgc	cagtgcatct	tgggggaaag	1260
ggctcca	agtg	ttatctggac	cagttccttc	attttcaggt	gggactcttg	atccagagaa	1320
gacaaaq	gctc	ctcagtgagc	tggtgtataa	tccaagacag	aacccaagtc	tcctgactcc	1380
tggcctt	ccta	tgccctctat	cctatcatag	ataacattct	ccacagcctc	acttcattcc	1440
acctatt	ctc	tgaaaatatt	ccctgagaga	gaacagagag	atttagataa	gagaatgaaa	1500
ttccago	cctt	gactttcttc	tgtgcacctg	atgggagggt	aatgtctaat	gtattatcaa	1560
taacaat	caaa	aataaagcaa	ataccaaaaa				1590
<210><211><211><212><213>	3 20 DNA PCR	primer					
<400>	3 gagg	agctttgtct					20
•	, ,,						
<210> <211> <212> <213>	4 18 DNA PCR	primer					
<400> 4 cactgaggag		ctttgtcc					18
<210> <211> <212> <213>	5 21 DNA PCR	primer					
<400> caggtgg	5 ggac	tcttgatcca	g				21
<210> <211> <212> <213>	6 20 DNA PCR	primer					
<400> 6 agggttcctg		gccgtgcagg					20
<210> <211> <212> <213>	7 18 DNA PCR	primer					
<400>	7						

ccgcgct	ccc	tcggctgc	18
<210> <211> <212>			
<213>	PCR	primer	
<400>		ha ha a ha a ma	20
atatte	cett	tgtaatcagg	20
<210>	9		
<211>	20		
<212>	DNA		
<213>	PCR	primer	
	9		20
aaaaau	yyca	atcactcacc	20
<210>	10		
<211>	20		
<212>	DNA		
<213>	PCR	primer	
	10		
ccttcta	atga	tttctcctag	20
<210>			
<211>			
<212>			
<213>	PCR	primer	
<400>	11		
atccaaa	aggc	aatacgtacc	20
<210>	12		
	20		
<212>	DNA		
<213>	PCR	primer	
<400>	12		
acagtgi	tttt	atctttaagg	20
<210>	13		
<211>			
	DNA		
		primer	
	13	atacttacte a	21
graacai	Ltta	ctacttactc g	21

. .

<211>	14 20
<212> <213>	DNA PCR primer
	14
ccctgtt	cct tttaactagg
<210>	
<211> <212>	
	PCR primer
<400>	15 tca taatcactgc
cccagga	ica caaccactyc
<210> <211>	
<212>	
	PCR primer
<400>	16
	ttt tatacccagg
<210>	17
<211>	
<212>	
<213>	PCR primer
<400>	17
gtattac	ttt ttccacttac c
	18
	20
	DNA PCR primer
	18
gactete	act gtcattgcag
.010	
	19 20
	DNA
	PCR primer
<1005	1.0
	19 tgc actccagcct
<i>J</i> = <i>J</i> = J =	- 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
<210>	20
	624
	DNA

<213> Homo sapiens

<400>	20						
		ggcatgtcac	agtatactaa	atgctcactg	aatccagctg	caatgcagga	60
agactc	ccct	gatgtgatca	tgtgtctcac	cctttcaggc	tgaaagcaac	agtacagacg	120
atgaga	ccga	cgatcccagg	acgtatcaga	aatatggtta	cattggaaca	catgagtacc	180
ctcatt	tctc	tcatagaccc	agcacgctcc	aggcagcatc	caccccacag	gcagaagagg	240
actgga	cctg	caccatcctc	tgaatgccag	tgcatcttgg	gggaaagggc	tccagtgtta	300
tctgga	ccag	ttccttcatt	ttcaggtggg	actcttgatc	cagagaagac	aaagctcctc	360
agtgag	ctgg	tgtataatcc	aagacagaac	ccaagtctcc	tgactcctgg	ccttctatgc	420
cctctat	tcct	atcatagata	acattctcca	cagcctcact	tcattccacc	tattctctga	480
aaatati	ccc	tgagagagaa	cagagagatt	tagataagag	aatgaaattc	cagccttgac	540
tttctt	ctgt	gcacctgatg	ggagggtaat	gtctaatgta	ttatcaataa	caataaaaat	600
aaagcaa	aata	ccatttattg	ggtg				624
<210> <211> <212> <213>	21 19 DNA PCR	primer				-	
<400> ggcctgd	21 goot	gacaactat		ı			19
.	,	,					
<210> <211> <212> <213>	22 19 DNA PCR	primer					
<400>	22						
catccaa	agcc	tgcacgtat					19
<210> <211> <212> <213>	23 20 DNA PCR	primer					
<400>	23						
gctttgt	gtg	agcaacatgg					20
<210>	24						

<211> 20 <212> DNA <213> PCR primer

	<400>	24 tetg gtetetecag	20
	990000		
	<210>	25	
	<211>		
	<212>		
		PCR primer	
	<400>	25	
	gactago	gcca gcggagaac	19
•	J J.		
	<210>	26	
	<211>		
	<212>		
		PCR primer	
	<400>	26	
		ggag agctggtt	18
	900009	35 ² 25 ² 25	
	<210>	27	
	<211>		
	<212>		
		PCR primer	
		27	
	tgaaga	cccc caattaccaa	20
	<210>	28	
	<211>		
	<212>		
		PCR primer	
	<400>		
	ctctcgt	ttcg cctctttcac	20
	<210>		
	<211>		
	<212>		
	<213>	PCR primer	
	<400>		
	ggcctgg	gcct gacaactat	19
	-		
	<210>	30	
	<211>	19	
	<212>		
		PCR primer	
	<400>	30	
		agcc tgcacgtat	19

•